| In | de | ЭX | of | CI | ai | ms |  |
|----|----|----|----|----|----|----|--|
|    |    |    |    |    |    |    |  |

| Application No. | Applicant(s)   |  |
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| 09/469,904      | BULLOCK ET AL. |  |
| Examiner        | Art Unit       |  |
| Adam M Queler   | 2179           |  |

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√ Rejected

Allowed

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| Α | Appeal   |
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| 0 | Objected |

|          |  | Ш            |                |              |          |            |              | Į                              |               |              |      |
|----------|--|--------------|----------------|--------------|----------|------------|--------------|--------------------------------|---------------|--------------|------|
| Cla      |  | Ι            |                |              |          |            |              |                                |               | _            |      |
| LIE      |  |              |                |              |          | Date       | <del>)</del> |                                | <del></del> - |              |      |
| l _ l    | Original   | 4            |                |              |          |            |              |                                |               | i            |      |
| Final    | jë.  | 9/27/04      | ,              |              |          |            |              | ļ                              |               | - 1          |      |
| 正        | Ž  | 9/2          |                |              |          |            |              |                                |               |              |      |
|          |  |              |                |              |          |            |              |                                |               |              |      |
|          | _1   | <b>√</b>     |                |              |          |            |              |                                |               |              |      |
|          | 2  | П            |                |              |          |            |              |                                |               |              |      |
|          | 3  |              |                |              |          |            |              |                                |               |              |      |
|          | 4  | П            |                |              |          |            |              |                                |               |              |      |
|          | 1<br>2<br>3<br>4<br>5<br>6<br>7                    | Ш            |                |              |          |            |              |                                |               |              |      |
|          | 6  |              |                | Г            |          |            |              |                                |               |              |      |
|          | 7  | T            |                |              |          |            |              |                                |               |              |      |
|          | 8  | $\top$       |                |              |          |            |              |                                |               |              |      |
|          | 9  |              | -              |              |          |            |              |                                |               |              |      |
|          | 10   | T            |                |              | T        |            |              |                                | _             | -            |      |
|          | 11   | $\top$       |                | <u> </u>     |          |            |              |                                |               | Г            | :::: |
| <u> </u> | 12   | $\dagger$    |                |              | H        |            |              |                                |               |              |      |
|          | 13   | 1            |                |              | H        |            |              |                                |               |              |      |
| -        | 14   | +            |                |              | -        |            | -            |                                |               | -            |      |
| -        | 15   | H            |                |              | H        | -          |              | -                              |               | <del> </del> |      |
|          | 16   | ╫            |                | ╁            | ┢        |            |              |                                |               | <del></del>  |      |
|          | 17   | ╁╂╴          |                | $\vdash$     | ┢        | -          | -            |                                |               |              |      |
| <u> </u> | 10   | H            | ├-             | -            | $\vdash$ | $\vdash$   |              |                                | H             | -            |      |
|          | 10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | ╁            | $\vdash$       |              |          | ⊢          | <u> </u>     |                                |               | ┢            |      |
|          | 20   | +            | -              | ┢            | ┢        | -          |              | $\vdash$                       |               |              |      |
|          | 20   | ₩            |                |              | <u> </u> |            |              | <u> </u>                       | ┝             |              |      |
| -        | 21<br>22   | +            |                | <u> </u>     | -        |            |              | -                              |               | -            |      |
| -        | 22   | ₩            |                | -            | ⊬        |            | -            |                                |               |              | ł    |
|          | 23<br>24<br>25                                     | Н            |                | -            | ┢        | -          |              | -                              | ┝             | -            | 1    |
| -        | 24   | H            | -              | <del> </del> |          | <u> </u>   |              | _                              | <u> </u>      |              | 1    |
| _        | 25   | H            | ⊢              | ⊢            | ├        |            | <u> </u>     | -                              |               | $\vdash$     | ł    |
| -        | 26<br>27   | $\mathbb{H}$ | _              | ╀            | -        |            |              | $\vdash$                       | <u> </u>      | $\vdash$     | ł    |
|          | 27   | +1           | <u> </u>       | ├            | ┢        | <b> </b> - | _            | ⊢                              | ⊢             | ├-           | 1    |
|          | 28<br>29   | Н            | <u> </u>       |              | ╀        | ┡          |              |                                |               |              | 1    |
| <u> </u> | 29   | ╁╂           | ⊢              | -            | ⊢        | ├          | ⊢            | ├                              | <u> </u>      |              |      |
|          | 30   | $\sqcup$     | -              | _            | ــ       | <b>├</b> — |              | -                              | -             | ļ            | 1    |
| -        | 31   | H            | -              | ├            | ├        |            | -            | -                              | ┝             | ⊢            |      |
|          | 32   | Н            | <u> </u>       | ├            | ┼        | ┡          | <u> </u>     |                                |               | -            |      |
|          | 33   | +            |                | ╀-           | $\vdash$ | ⊢          | ├            |                                | ⊢             |              | -    |
|          | 34<br>35   | ++           | <del> </del> — | $\vdash$     | $\vdash$ | -          | -            |                                |               | <u> </u>     |      |
|          | 35   | Н            | ┡              | ļ_           | -        | ┢          | Ь.           | _                              | -             | ļ            |      |
|          | 36<br>37   | $^{+}$       | ļ.,            | _            | Ļ        | ┡          |              |                                | -             | -            |      |
|          | 3/   | 4            | ļ              | $\vdash$     | ļ        | ļ          | <u> </u>     |                                | ļ             | ļ            | -    |
| <u> </u> | 38   | Ш.           | ┞              | ╙            | ↓_       | <u> </u>   |              | _                              |               | <u> </u>     |      |
| <u> </u> | 39   | 1            | ļ.,            | ╄            | ļ        | ļ          | ļ            | _                              |               | <u> </u>     |      |
|          | 40   | 1            |                |              | 丄        | <u> </u>   | <u> </u>     | _                              |               |              |      |
|          | 41   | 1            | Ļ              | L            | ↓_       |            | L_           | <u> </u>                       |               | ļ            |      |
|          | 42   | V            | _              | ــــــ       | -        |            | <u> </u>     | L                              |               | L_           |      |
|          | 43   |              | <u> </u>       | ╙            | _        | <u>.</u>   |              | <u></u>                        |               |              |      |
|          | 44   | 1            | L              | <u> </u>     | 1_       |            |              | L                              |               | ļ            |      |
|          | 45   |              | _              |              |          |            | L            |                                |               | <u> </u>     |      |
|          | 46   |              |                |              |          | <u> </u>   |              | $oxedsymbol{oxedsymbol{oxed}}$ |               | _            |      |
|          | 47   | L            | L              | L            | L        |            |              |                                | L             |              |      |
|          | 48   |              |                |              | L        |            | 匚            |                                |               |              |      |
|          | 49   | L            | L              | L            |          |            | L            | L                              |               |              |      |
|          | 50   |              |                | Г            |          |            |              |                                |               |              | 1    |

|      | Cla         | im                         |             |          |          |                | ate      |                   |              |          |              |    |
|------|-------------|----------------------------|-------------|----------|----------|----------------|----------|-------------------|--------------|----------|--------------|----|
| 93   | - 1         |                            |             | —т       |          |                |          |                   |              |          |              | Ė  |
|      |             | ō                          |             | ļ        |          |                |          | - 1               | ı            |          | 1            | Ė  |
|      | ā           | .⊑.                        |             |          |          |                |          | - 1               | 1            |          |              | Ė  |
|      | Final       | .⊵, ∣                      |             |          |          |                |          | - 1               |              |          |              | Ė  |
| -:-: | 1           | Original                   | -           | - 1      |          |                |          | - 1               |              | - 1      |              |    |
|      |             |                            |             | $\dashv$ | -4       | -              |          |                   | $\dashv$     | $\dashv$ |              |    |
|      |             | 51                         |             | _        |          |                |          | _                 |              |          |              |    |
|      |             | 51<br>52<br>53             |             | 1        |          |                |          |                   | J            |          |              |    |
|      |             | 53                         | $\neg \neg$ |          |          |                |          |                   |              |          |              | Ė  |
|      |             | 54                         |             |          | _        |                |          |                   |              |          |              | :  |
|      |             | 77                         |             | $\dashv$ |          |                | -1       |                   | -            |          |              |    |
|      |             | 55                         |             | _        |          | $\blacksquare$ | =        | _                 |              | _        | _            |    |
|      |             | 56                         |             |          |          |                |          |                   |              |          |              | 1  |
|      | 1           | 57                         | ļ           |          |          |                |          |                   |              | 1        |              |    |
|      |             | 58<br>59                   |             |          |          |                |          |                   |              |          |              |    |
|      |             | 50                         | 一           |          | -        |                |          |                   |              |          |              |    |
|      |             | 39                         | $\dashv$    | $\dashv$ | _        | _              |          | $\dashv$          |              | -        |              |    |
|      |             | 60                         |             |          |          |                |          |                   | _            |          |              | ŀ  |
|      |             | 61                         | _           | _        |          | LJ             | L        |                   |              |          |              | ľ  |
| Hi   |             | 62                         |             |          |          |                |          |                   |              |          |              | ŀ  |
|      |             | 63                         |             |          | _        |                | _        |                   |              |          |              | ŀ  |
|      | <u> </u>    | 63<br>64                   |             | $\dashv$ | -        | $\vdash$       |          |                   | $\dashv$     |          |              | 1  |
|      |             | 04                         |             |          |          | $\vdash$       | H        |                   |              |          |              |    |
|      |             | 65                         |             |          |          |                |          |                   |              |          |              | ŀ  |
|      |             | 66                         |             |          |          |                |          |                   |              |          |              | ŀ  |
|      |             | 67                         |             |          |          |                |          |                   |              |          |              | :  |
|      |             | 68                         |             |          |          |                |          |                   |              |          |              | :  |
|      | <b>-</b>    | 68<br>69                   | $\neg$      |          |          |                |          | _                 |              | <u> </u> |              | :  |
|      |             | 70                         | -           |          |          |                | -        | -                 | _            |          |              | Ė  |
|      |             | 70                         |             |          |          | ļ              |          | Ш                 |              |          | _            |    |
|      |             | 71                         |             |          |          |                | l        |                   |              |          | _            | ŀ  |
|      |             | 71<br>72<br>73<br>74<br>75 |             |          |          |                | I        |                   |              |          |              | ŀ  |
|      |             | 73                         |             |          |          |                |          |                   |              |          |              | ۱  |
|      | <u> </u>    | 74                         |             |          |          | $\vdash$       |          | -                 | $\vdash$     | ┢        | $\vdash$     | l  |
|      | <u> </u>    | 74                         |             |          |          | -              |          |                   |              | ┝        | -            | l  |
|      |             | /5                         |             |          |          |                | _        | $ldsymbol{f eta}$ | $\perp$      | ļ        | ļ            | l  |
|      |             | 76<br>77                   |             |          |          |                |          |                   |              | <u> </u> | L            | ŀ  |
|      |             | 77                         |             |          |          |                |          |                   |              |          |              | ŀ  |
|      |             | 78<br>79                   |             |          | - /12    |                |          |                   |              |          |              | 1  |
|      | -           | 70                         |             |          | -        | $\vdash$       | $\vdash$ | -                 | -            | _        |              | 1  |
|      | ├──         | 90                         |             |          | -        |                |          |                   | ├            | -        | -            | ł  |
|      | <u> </u>    | 80                         |             |          |          | <del> </del>   | ├        |                   |              |          |              | 1  |
|      |             | 81                         |             |          | L        |                | L        | L.                | L.           |          |              | l  |
|      |             | 82                         |             | L        | L        |                |          |                   | L            |          |              | 1  |
|      |             | 83                         |             |          |          |                |          |                   |              |          |              | ľ  |
|      |             | 84                         |             |          |          | 1              | T-       |                   | Γ            |          |              | 1  |
|      | <b>—</b>    | 85                         | -           | -        |          | -              |          | $\vdash$          | $\vdash$     | _        |              | 1  |
|      | -           |                            | $\vdash$    | -        | -        | -              | -        |                   | -            |          |              | 1  |
|      | ļ           | 86                         |             |          |          | <b></b>        |          | <u> </u>          | <u> </u>     | _        |              | ŀ  |
|      |             | 87                         |             |          |          |                | ļ .      |                   |              |          | <u></u>      | l  |
|      | ļ           | 88                         |             |          |          |                | l        | ľ                 |              |          | l            | ١  |
|      |             | 89                         |             |          |          |                |          |                   |              |          |              | 1  |
|      | -           | 90                         |             | _        | -        |                | $\vdash$ | -                 |              | 1        | -            | 1  |
|      |             | 91                         |             | -        | ⊢        |                | ╁        | ⊢                 |              |          | $\vdash$     | ł  |
|      | <u> </u>    |                            | <u> </u>    | -        | <u> </u> | -              | <u> </u> | ⊢                 |              | ⊢        | ⊢            | 1  |
|      | <u></u>     | 92                         |             | L-       | <u> </u> | <u> </u>       | <u> </u> | _                 | <u> </u>     | _        | $\vdash$     | 1  |
|      | L_          | 93                         |             | L_       | L        | L              | L        | L                 | L            | L        | L            | j  |
|      |             | 94                         |             |          | Γ        | i i            |          |                   |              |          |              | 1  |
|      |             | 95                         |             | <b>-</b> | $\vdash$ | <u> </u>       |          |                   |              | <b>—</b> | T            | 1  |
|      | <del></del> | 96                         | $\vdash$    |          |          | $\vdash$       | -        | -                 | <del> </del> | $\vdash$ | <del> </del> | 1  |
|      |             |                            |             | <u> </u> |          |                | -        | $\vdash$          | <u> </u>     | -        | -            | 1  |
|      | <u> </u>    | 97                         |             |          | <u></u>  |                |          |                   | <u> </u>     | _        | _            | 1  |
|      |             | 98                         |             | L        | L        | L              | L        | L_                | L            | L        | L            | J  |
|      |             | 99                         |             |          |          | Γ              | Г        |                   |              |          |              | 1  |
|      |             | 100                        |             |          |          |                | Ι_       |                   |              |          | 1            | 1  |
|      |             |                            |             |          |          |                |          |                   | 1            |          |              | _1 |

| Cla   | Date              |              |  |              |              |              |                                     |  |              |                 |
|-------|-------------------|--------------|--|--------------|--------------|--------------|-------------------------------------|--|--------------|-----------------|
|       |                   |              |  | i            | 7411         | _            |                                     |  | $\dashv$     |                 |
| Final | Original          |              |  |              |              |              |                                     |  |              |                 |
|       | 101               |              |  |              |              |              |                                     |  | $\neg$       |                 |
|       | 102               |              |  |              |              |              |                                     |  |              |                 |
|       | 103               |              |  |              |              |              |                                     |  |              |                 |
|       | 104               |              |  |              |              |              |                                     |  |              | $\Box$          |
|       | 105               |              |  |              |              |              |                                     |  |              |                 |
|       | 106               |              |  |              |              |              |                                     |  |              |                 |
|       | 107               |              |  |              |              |              | _                                   |  |              |                 |
|       | 108               | _            |  |              |              |              |                                     |  |              |                 |
|       | 109               | -            |  |              |              |              |                                     |  |              |                 |
|       | 110<br>111        |              |  | -            | _            |              | _                                   | _  |              | $\dashv$        |
|       | 112               |              |  |              | -            |              |                                     |  |              | _               |
|       | 113               |              | _  | $\vdash$     | -            |              | H                                   |  |              | $\dashv$        |
|       | 114               | <del> </del> | <b>-</b>   |              |              | _            | -                                   |  |              | $\vdash$        |
|       | 114<br>115        |              |  |              | Н            |              |                                     | П  | Н            | Н               |
|       | 116               |              | <del> </del>   |              |              |              | $\vdash$                            | <b> </b>   |              | $\Box$          |
|       | 117               |              | l  |              |              |              | <u> </u>                            |  |              | П               |
|       | 118               |              |  | l —          |              |              |                                     |  |              |                 |
|       | 119               |              |  |              |              |              |                                     |  |              |                 |
|       | 120               |              |  |              |              |              |                                     |  |              |                 |
|       | 121               |              |  |              |              |              |                                     |  |              |                 |
|       | 122<br>123        | <u> </u>     |  |              |              |              |                                     |  | _            | Ш               |
|       | 123               | <u> </u>     |  |              |              |              |                                     |  |              |                 |
|       | 124               | _            | _  |              |              |              |                                     |  |              |                 |
|       | 125               |              | <u> </u>   | _            |              | <u> </u>     | <u> </u>                            | <u> </u>   |              |                 |
|       | 126               |              | -  | -            |              |              | ┢                                   | _  |              | $\vdash$        |
|       | 127<br>128<br>129 | ├            |  |              | -            |              |                                     | -  |              | Н               |
|       | 120               | ┢            |  | -            | -            | -            | ┝                                   | ⊢  | <del> </del> | $\vdash$        |
|       | 130               | ╢            |  |              | -            | -            | 1                                   |  | -            | Н               |
|       | 131               | $\vdash$     | -  |              |              |              | $\vdash$                            | $\vdash$   |              | $\vdash$        |
|       | 132               | <u> </u>     |  |              | T            |              |                                     |  |              |                 |
|       | 133               | t            |  |              | <u> </u>     |              |                                     | $\vdash$   |              |                 |
|       | 134               | · · · ·      |  |              |              |              |                                     |  |              |                 |
|       | 135               |              |  |              |              |              |                                     |  |              |                 |
|       | 136               |              |  |              |              |              |                                     |  |              |                 |
|       | 137               | <u> </u>     | L  | <u> </u>     | <u> </u>     | _            |                                     | <u> </u>   |              |                 |
|       | 138               | L            | $ldsymbol{ld}}}}}}$ |              |              | ļ            | <u> </u>                            |  |              | Ш               |
|       | 139               | _            | L  | <u> </u>     | <u></u>      | <u> </u>     | L                                   | ļ  |              |                 |
|       | 140               | _            | _  | _            |              | _            | ļ                                   | _  | <u> </u>     |                 |
|       | 141               | ļ            | <u> </u>   | -            | ļ            | <u> </u>     | <u>.</u>                            |  | -            | Ш               |
|       | 142               | ├            | ├  | <del> </del> | <del> </del> | $\vdash$     | $\vdash$                            | <del> </del>                                     |              | Н               |
|       | 143               | -            | $\vdash$   | -            | $\vdash$     |              | ├                                   | <del>                                     </del> | <del> </del> |                 |
|       |                   | +-           | $\vdash$   | $\vdash$     | -            | $\vdash$     | $\vdash$                            | -  | $\vdash$     | $\vdash$        |
|       | 145<br>146        | <del> </del> | <del> </del>   | <del> </del> |              | -            | <del> </del>                        | ├  | ├-           | $\vdash$        |
|       | 147               | 1            | <del>                                     </del>   | $\vdash$     | $\vdash$     | <del> </del> | <del> </del>                        | $\vdash$   | t            | $\vdash$        |
| ├──   | 148               | -            | $\vdash$   | ├            | <del> </del> | <del> </del> | $\vdash$                            | <del> </del>                                     |              | $\vdash \vdash$ |
|       | 149               | <del> </del> | $t^{-}$  | <del> </del> | t-           |              | T                                   | -  | 1            | Н               |
|       | 150               | T            | t  |              | <del> </del> | +            | <b> </b>                            |  | $\vdash$     | $\vdash$        |
| L     | 1.00              | 1            | Ь—   | <u> </u>     | <u> </u>     | <u> </u>     | ٠ــــــــــــــــــــــــــــــــــ |  | _            | لــــا          |